10

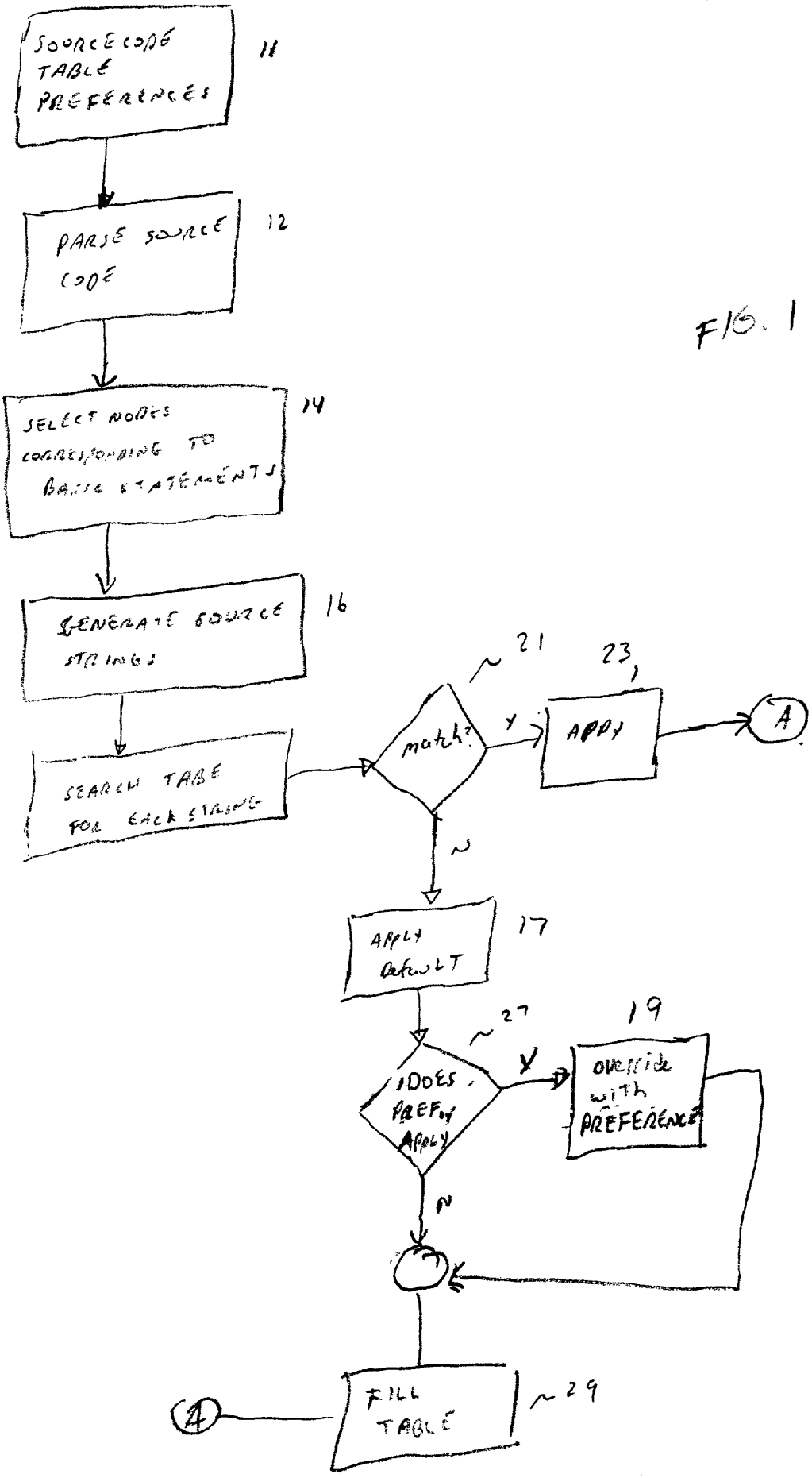

SOURCE CODE TABLE PREFERENCES
11
PARSE SOURCE CODE
12
SELECT NODES CORRESPONDING TO BASIC STATEMENTS
14
GENERATE SOURCE STRINGS
16
SEARCH TABLE FOR EACH STRING
18
match?
21
Y
APPLY
23
A
N
APPLY DEFAULT
17
DOES PREF APPLY
27
Y
override with PREFERENCE
19
N
FILL TABLE
29
A

FIG. 1

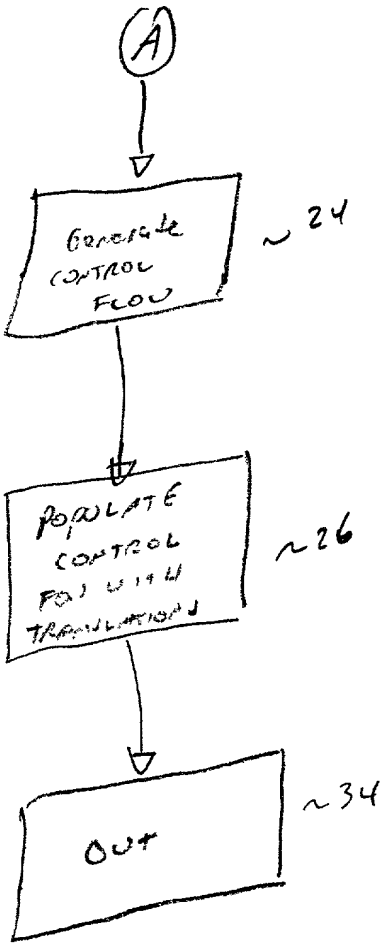
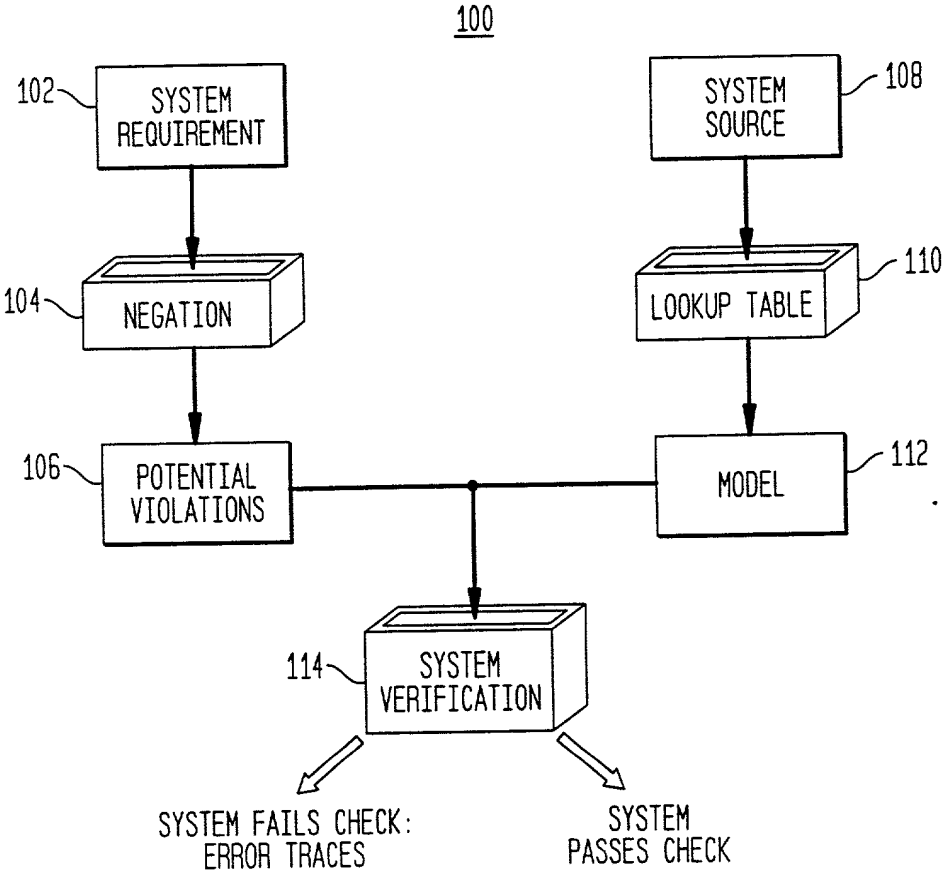

A
Generate control flow
24
Populate control flow with translations
26
Out
34

FIG. 2


100
102
SYSTEM REQUIREMENT
104
NEGATION
106
POTENTIAL VIOLATIONS
108
SYSTEM SOURCE
110
LOOKUP TABLE
112
MODEL
114
SYSTEM VERIFICATION
SYSTEM FAILS CHECK: ERROR TRACES
SYSTEM PASSES CHECK